

Work Order ID 124133

September-11-14 11:55:44 AM

124133

Page 1

Item ID: D3580-3

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Joggle Bracket

Stop

NS2

Start Date: 9/30/14

Start Qty: 12.00

12

Cust Item ID:

Required Date: 9/30/14

Req'd Qty: 12.00

12

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 14-09-12

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3580	C								
100 *100* Waterjet	FLOW WATER JET	0.00							
FLOW CNC Waterjet	Memo	0.00							
	1-Cut D3580-1F as per Dwg								
	Dwg Rev: C								
	Prog Rev: C								
	2-Deburr if necessary								
110 *110* QC Quality Control	QC2- Inspect parts off machine FAI/FAIB	0.00							
	Memo	0.00							
120 *120* QC Quality Control	QC8- Inspect parts - second check	0.00							
	Memo	0.00							

DAS

38

9-89 14-10-01

(30)

(30) 14/09/30

(30)

(30) 14/09/30

(30)

DQA:

Date:



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only

Work Order: _____
 Part No. _____
 NCR No. _____

DISPOSITION

- Rework
- Scrap
- Use-as-is
- Suspected Unapproved

AGAINST DEPARTMENT/PROCESS

- | | | | |
|--|------------------------------------|--|--------------------------------------|
| <input type="checkbox"/> Skid-tube | <input type="checkbox"/> Crosstube | <input type="checkbox"/> Water Jet | <input type="checkbox"/> Engineering |
| <input type="checkbox"/> Machining | <input type="checkbox"/> Small Fab | <input type="checkbox"/> Prod. Eng. Coor. | <input type="checkbox"/> Quality |
| <input type="checkbox"/> Thermoforming | <input type="checkbox"/> Finishing | <input type="checkbox"/> Rec/Store/Packaging | <input type="checkbox"/> Other |
| <input type="checkbox"/> Large Fab | <input type="checkbox"/> Composite | <input type="checkbox"/> Supplier | |

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube		General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function											<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence				<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled				<input type="checkbox"/> Other	

Work Order ID 124133

September-11-14 11:55:44 AM

124133

Page 2

Item ID: D3580-3

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Joggle Bracket

Stop

NS2

Start Date: 9/30/14 Start Qty: 12.00

12

Cust Item ID:

Required Date: 9/30/14 Req'd Qty: 12.00

12

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

130

Small Fab

Small Fab

0.00

DAS
28
9-89

DAS
30
9-89

30

OCT 08 2014

Small Fab

Memo

0.00

140

140

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

DAS

38

9-89

14-10-8

145

145

Powdercoat

Powder Coating

Black Sandtex(Ref:4.3.5.7) per OSI005 4.3

0.00

Memo

2:15
320
2:45

0.00

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

30 0 14-10-8.

DAS
34

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____	DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Part No. _____	Rework	<input type="checkbox"/>	Skid-tube	<input type="checkbox"/>	Crosstube	<input type="checkbox"/>	Water Jet	<input type="checkbox"/>	Engineering	<input type="checkbox"/>
NCR No. _____	Scrap	<input type="checkbox"/>	Machining	<input type="checkbox"/>	Small Fab	<input type="checkbox"/>	Prod. Eng. Coor.	<input type="checkbox"/>	Quality	<input type="checkbox"/>
	Use-as-is	<input type="checkbox"/>	Thermoforming	<input type="checkbox"/>	Finishing	<input type="checkbox"/>	Rec/Store/Packaging	<input type="checkbox"/>	Other	<input type="checkbox"/>
	Suspected Unapproved	<input type="checkbox"/>	Large Fab	<input type="checkbox"/>	Composite	<input type="checkbox"/>	Supplier	<input type="checkbox"/>		

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	Bending	General	Folio/Program	Outside Dimensions	Pressure/Forced
	Centre Not Concentric		Grain	Over/Under tolerance	Set-up
	Cracks		Hardware	Part Incorrect	Temperature/Cure
	Crimp/Kink/Ripple/Wave		Inspection Incomplete/Unqualified	Part Lost/Missing	Weld
	Cuffs		Instructions Incomplete/Unclear	Part Moved	Wrong Stock Pulled
	Crushing		Misaligned/off center	Positioned Wrong	
	Heat Treat		Mislabeled	Power Loss/Surge	Other
	Inspection Strip in Tube		Misread		
	Marks/Chatter		Off-set		
	Turning Sequence		Out of Calibration		
	Wave/Twist in Tube		Out of Sequence		

DQA: _____ Date: _____

Date:



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Date:

Work Order update only

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering				
Part No. _____			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality				
NCR No. _____			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
			Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					
Root Cause		Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Design											
Doc/Data											
Equip/Tooling											
Handling/Pre											
Material											
Operator											
Offset/Setup											
Process											
Supplier											
Training											
Transport											
Unapproved											
FAULT CATEGORY											
Landing Gear			General								
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions		<input type="checkbox"/> Pressure/Forced						
<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance		<input type="checkbox"/> Set-up						
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect		<input type="checkbox"/> Temperature/Cure						
<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing		<input type="checkbox"/> Weld						
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved		<input type="checkbox"/> Wrong Stock Pulled						
<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong								
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Other						
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread									
<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set									
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration									
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence									

Work Order ID 124133

September-11-14 11:55:44 AM

124133

Page 4

Item ID: D3580-3

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Joggle Bracket

Stop

NS2

Start Date: 9/30/14 **Start Qty:** 12.00

12

Cust Item ID:

Required Date: 9/30/14 **Req'd Qty:** 12.00

12

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2

**Sequence ID/
Work Center ID**

**Operation
Description**

160

QC21- Final Inspection - Work Order Release

**Set Up/
Run Hours**

Tool ID

Tool #

**Plan
Code**

**Accept
Qty**

**Reject
Qty**

**Reject
Number**

**Insp.
Stamp**

0.00

160

QC

Quality Control

Memo

0.00

4/10/14

MJ 14-10-10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

Work Order: _____	DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. _____	Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>		
NCR No. _____	Use-as-is <input type="checkbox"/>	Suspected Unapproved <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>		
			Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>		
			Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>			

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General											
Bending	Bend <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>								
Centre Not Concentric	BOM/Route <input type="checkbox"/>	Grain <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Set-up <input type="checkbox"/>								
Cracks	Broken/Damage/Defect <input type="checkbox"/>	Hardware <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>								
Crimp/Kink/Ripple/Wave	Burrs <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Weld <input type="checkbox"/>								
Cuffs	Contamination <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>								
Crushing	Countersink <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>									
Heat Treat	Cut Too Short <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>									
Inspection Strip in Tube	Drawing <input type="checkbox"/>	Misread <input type="checkbox"/>										
Marks/Chatter	Drill Holes <input type="checkbox"/>	Off-set <input type="checkbox"/>										
Turning Sequence	Finish <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>										
Wave/Twist in Tube	Fit/Function <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>										

Picklist Print

September-11-14 11:55:44 AM

Page 1

Work Order ID: 124133

124133
D3580-3

Parent Item: D3580-3

Parent Item Name: Joggle Bracket

Start Date: 9/30/14

Required Date: 9/30/14

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP REV:A 14.07.03 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S18GA		Purchased	No				sf	351.3100		0.113684	24		

M304S18GA

304/316 .050 Sheet

Location	Loc Qty	Loc Code
MAT019	340.51	
117188	3	
117766	5	
120604	5	
122325	3	
123155	3	
124572	37.5	
M126647	31.55	
M128254	52.71	
M128435	36.95	
M128864	15	
M129530	147.8	
MAT020	10.8	
124029	0.8	(4)
M126098	10	

DQA: _____ Date: _____

Date:



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS																																							
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>																																						
Part No. _____			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>																																						
NCR No. _____			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>																																						
Suspected Unapproved <input type="checkbox"/>		Large Fab <input type="checkbox"/>		Composite <input type="checkbox"/>		Supplier <input type="checkbox"/>																																							
Root Cause		Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector																																			
Design <input type="checkbox"/>																																													
Doc/Data <input type="checkbox"/>																																													
Equip/Tooling <input type="checkbox"/>																																													
Handling/Pre <input type="checkbox"/>																																													
Material <input type="checkbox"/>																																													
Operator <input type="checkbox"/>																																													
Offset/Setup <input type="checkbox"/>																																													
Process <input type="checkbox"/>																																													
Supplier <input type="checkbox"/>																																													
Training <input type="checkbox"/>																																													
Transport <input type="checkbox"/>																																													
Unapproved <input type="checkbox"/>																																													
FAULT CATEGORY																																													
Landing Gear			General																																										
Bending <input type="checkbox"/>	Centre Not Concentric <input type="checkbox"/>	Cracks <input type="checkbox"/>	Crimp/Kink/Ripple/Wave <input type="checkbox"/>	Cuffs <input type="checkbox"/>	Crushing <input type="checkbox"/>	Heat Treat <input type="checkbox"/>	Inspection Strip in Tube <input type="checkbox"/>	Marks/Chatter <input type="checkbox"/>	Turning Sequence <input type="checkbox"/>	Wave/Twist in Tube <input type="checkbox"/>	Bend <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Broken/Damage/Defect <input type="checkbox"/>	Burrs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Countersink <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Drawing <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Finish <input type="checkbox"/>	Fit/Function <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Grain <input type="checkbox"/>	Hardware <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Misread <input type="checkbox"/>	Off-set <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>	Set-up <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>	Weld <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>	Other <input type="checkbox"/>

DART AEROSPACE LTD	Work Order:	124133
Description: Joggle Bracket	Part Number:	D3580-3
Inspection Dwg: D3580	Rev: C	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Measured by:	Dc /EZ	Audited by:	9-89	Preliminary Approval:	
Date:	14/09/30	Date:	14-10-01	Date:	

Rev	Date	Change	Revised by	Approved
A	14.07.14	New Issue	KJ	ds M

8 7 6 5 4 3 2 1

D

D

C

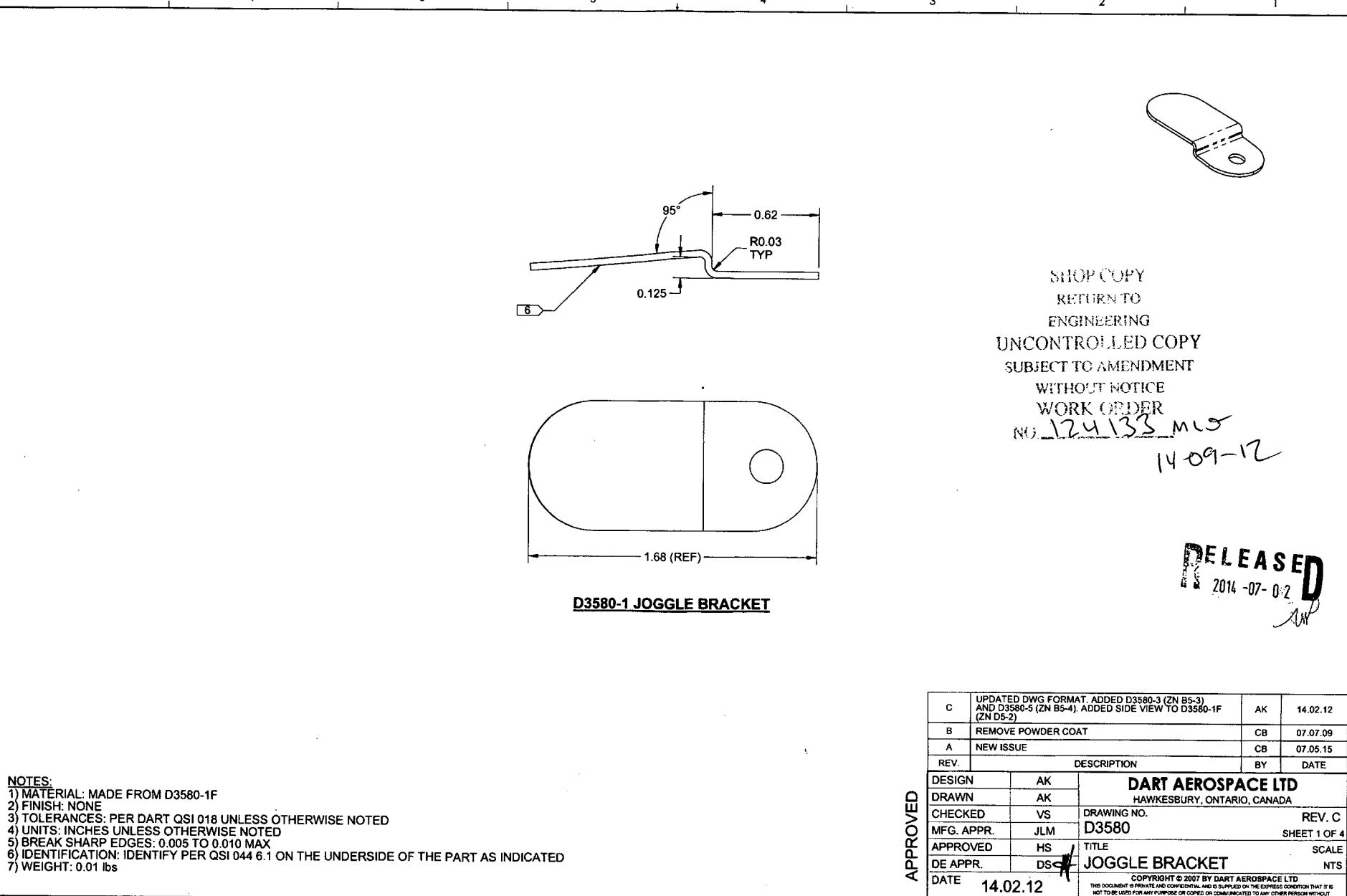
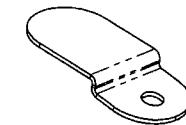
C

B

B

A

A

**D3580-1 JOGGLE BRACKET**

SHOP COPY

RETURN TO

ENGINEERING

UNCONTROLLED COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER

NO 124133 MLO

14-09-12

RELEASED
 2014-07-02
AK

APPROVED

C	UPDATED DWG FORMAT. ADDED D3580-3 (ZN B5-3) AND D3580-5 (ZN B5-4). ADDED SIDE VIEW TO D3580-1F (ZN D5-2)			AK	14.02.12
B	REMOVE POWDER COAT			CB	07.07.09
A	NEW ISSUE			CB	07.05.15
REV.	DESCRIPTION			BY	DATE
DESIGN	AK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			A
DRAWN	AK	DRAWING NO. D3580			REV. C
CHECKED	VS	SHEET 1 OF 4			
MFG. APPR.	JLM	TITLE JOGGLE BRACKET			SCALE NTS
APPROVED	HS				
DE APPR.	DS				
DATE	14.02.12				

- NOTES:
- 1) MATERIAL: MADE FROM D3580-1F
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1 ON THE UNDERSIDE OF THE PART AS INDICATED
 - 7) WEIGHT: 0.01 lbs

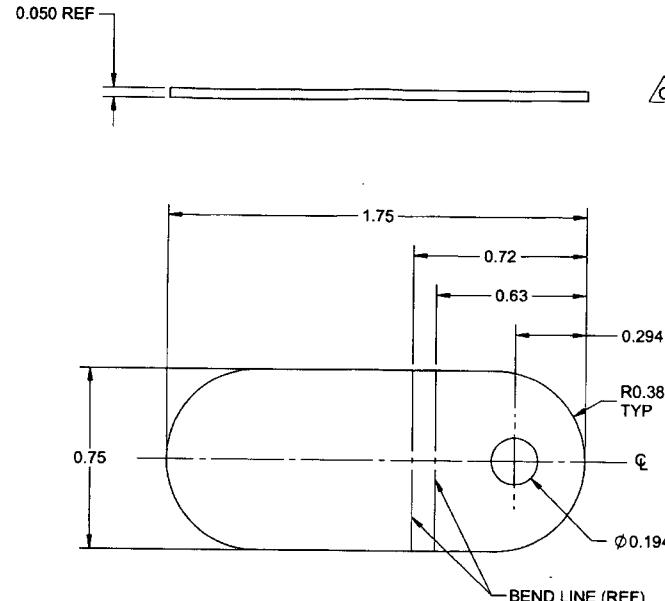
8 7 6 5 4 3 2 1

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 WRITTEN PERMISSION FROM DART AEROSPACE LTD

8 7 6 5 4 3 2 1

D

D



D3580-1F FLAT PATTERN

RELEASED
R 2014-07-02
[Handwritten signature]

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK)
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240
(REF DART SPEC M304S18GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

8 7 6 5 4 3 2 1

APPROVED

DESIGN	AK	DART AEROSPACE LTD	
DRAWN	AK	HAWKESBURY, ONTARIO, CANADA	
CHECKED	VS	REV. C	
MFG. APPR.	JLM	DRAWING NO.	D3580
APPROVED	HS	SHEET 2 OF 4	
DE APPR.	DS	TITLE	SCALE
		JOGGLE BRACKET	
DATE	14.02.12	NTS	

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A

8

7

6

5

4

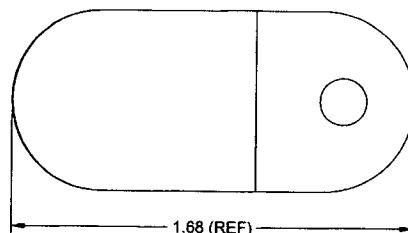
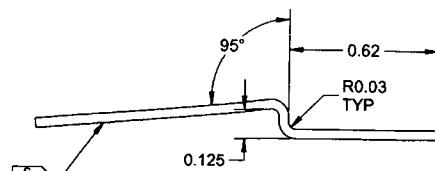
3

2

1

D

D



△ **D3580-3 JOGGLE BRACKET**

RELEASED
2014-07-02
[Signature]

NOTES:

- 1) MATERIAL: MADE FROM D3580-1F
- 2) FINISH: POWDER COAT "BLACK" (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1 ON THE UNDERSIDE OF THE PART AS INDICATED
- 7) WEIGHT: 0.01 lbs

8

7

6

5

4

APPROVED

DESIGN	AK	DART AEROSPACE LTD	
DRAWN	AK	HAWKSLEY, ONTARIO, CANADA	
CHECKED	VS	DRAWING NO. REV. C	
MFG. APPR.	JLM	D3580 SHEET 3 OF 4	
APPROVED	HS	TITLE SCALE	
DE APPR.	DS-#	JOGGLE BRACKET NTS	
DATE	14.02.12	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 1 7 1 6 1 5 1 4 1 3 1 2 1

D

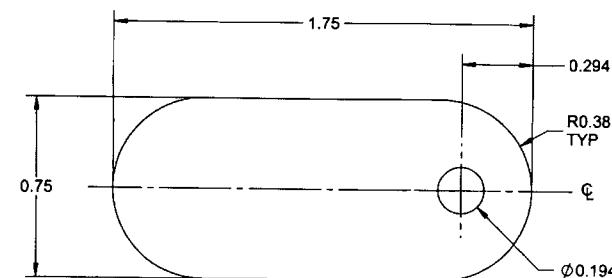
D

0.050 REF



C

C



D3580-5 BRACKET

B

B

RELEASED
2014-07-02
[Signature]

NOTES:

- 1) MATERIAL: MADE FROM D3580-1F
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.01 lbs

8 1 7 1 6 1 5 1 4 1 3 1 2 1

APPROVED

DESIGN	AK	DART AEROSPACE LTD	
DRAWN	AK	HAWKESBURY, ONTARIO, CANADA	
CHECKED	VS	DRAWING NO.	
MFG. APPR.	JLM	REV. C	
APPROVED	HS	D3580	SHEET 4 OF 4
DE APPR.	DS	TITLE	SCALE
DATE	14.02.12	JOGGLE BRACKET	NTS

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